

006733" 02626560

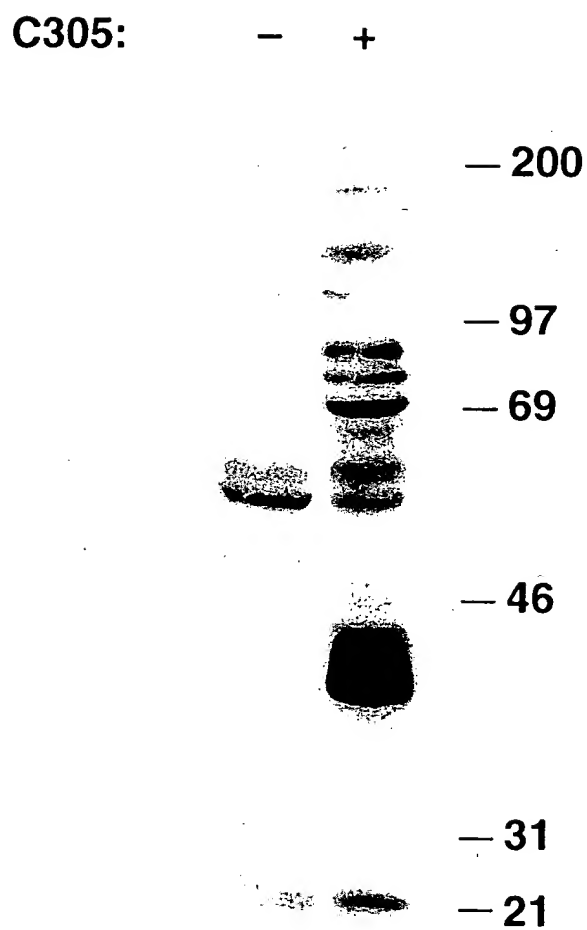


FIG. 1A

0057220-06190
0057220-06190

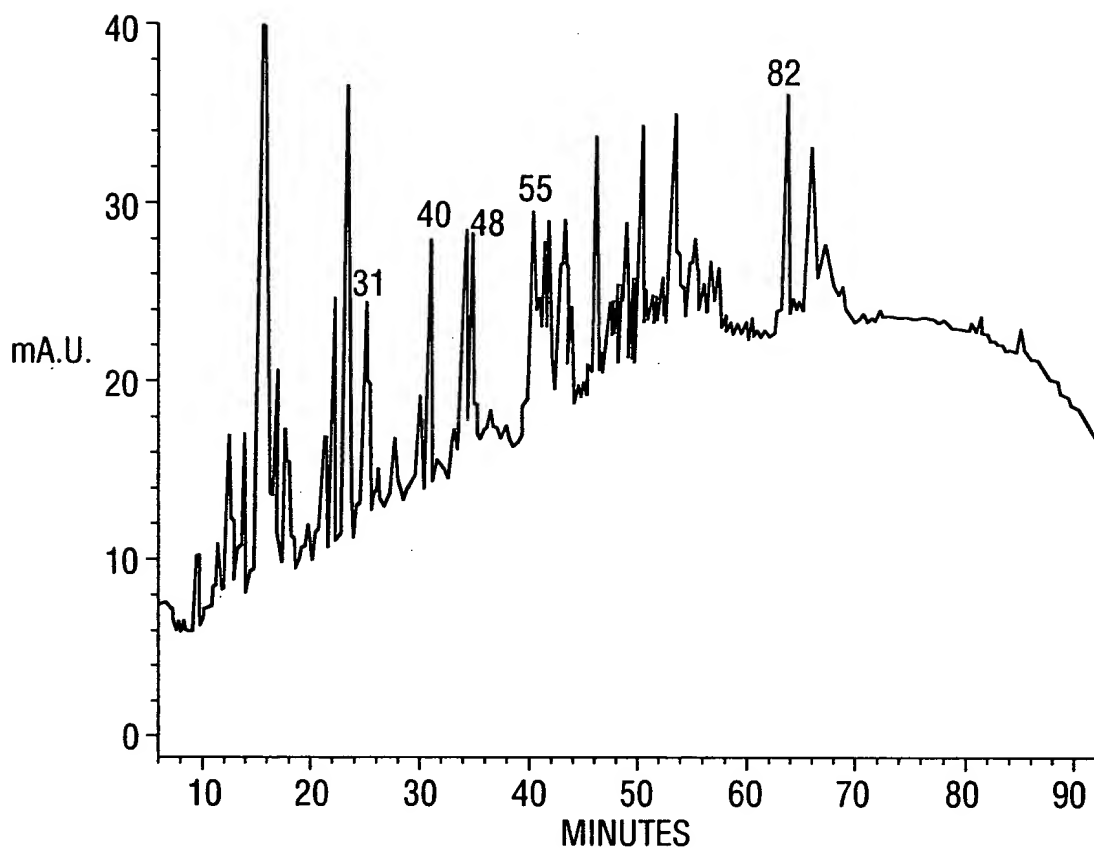


FIG. 1B

Expt	Peak	Mass	Sequence	Source
1	40	1721.9	x x v N V S Q E L H P x A A k	LAT
1	82	1840.0	S E V L G W D P D S L A D Y F K	SLP-76
2	31	n.d.	S I F T R	SLP-76
3	55	1334.8	n.d.	SLP-76
3	48	1743.3	L P G S Y D S T S S D S L Y P R	LAT
3	48	1641.6	x Y v N V	LAT

FIG. 1C

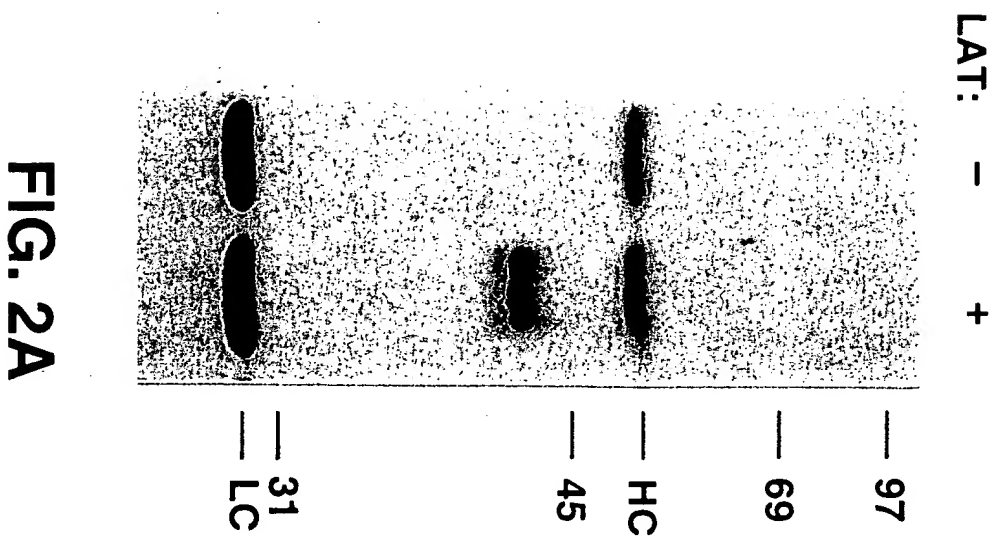


FIG. 2A

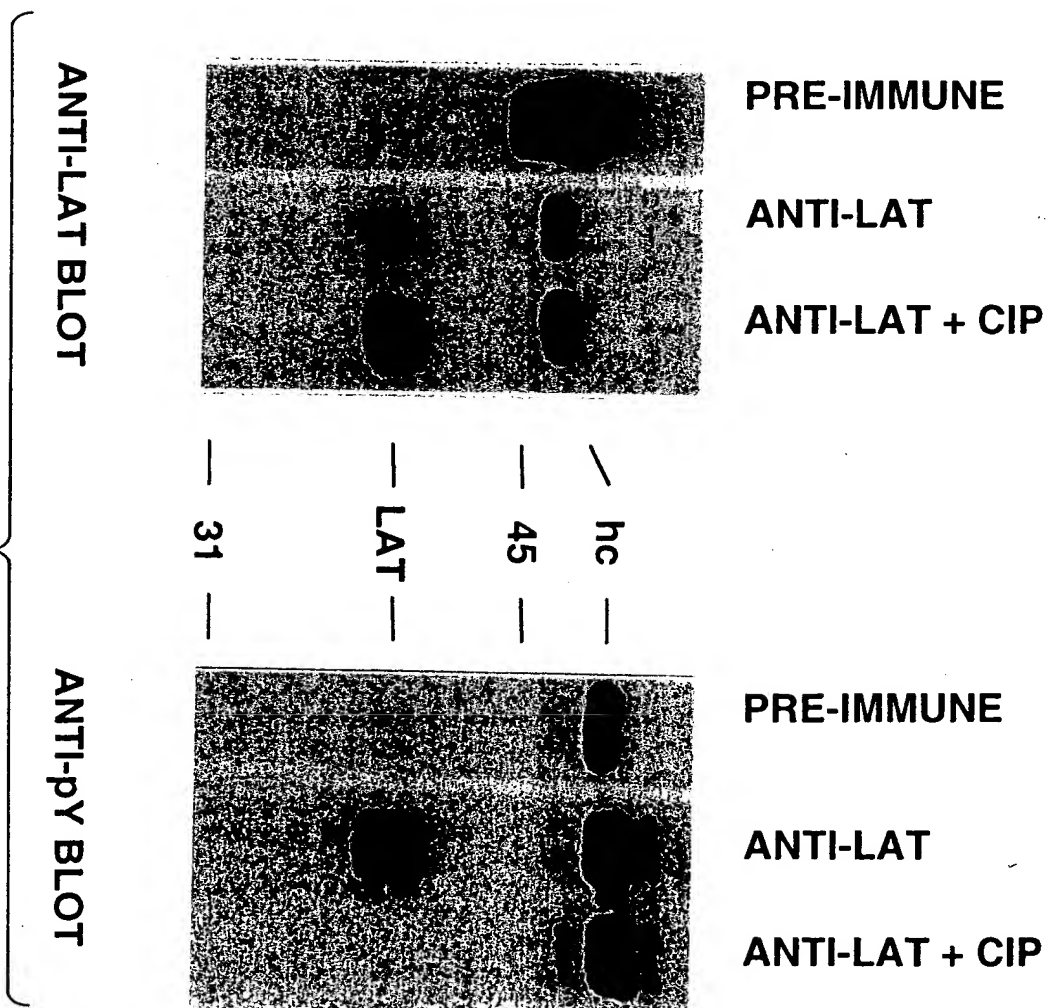


FIG. 2B

005F90 0264550

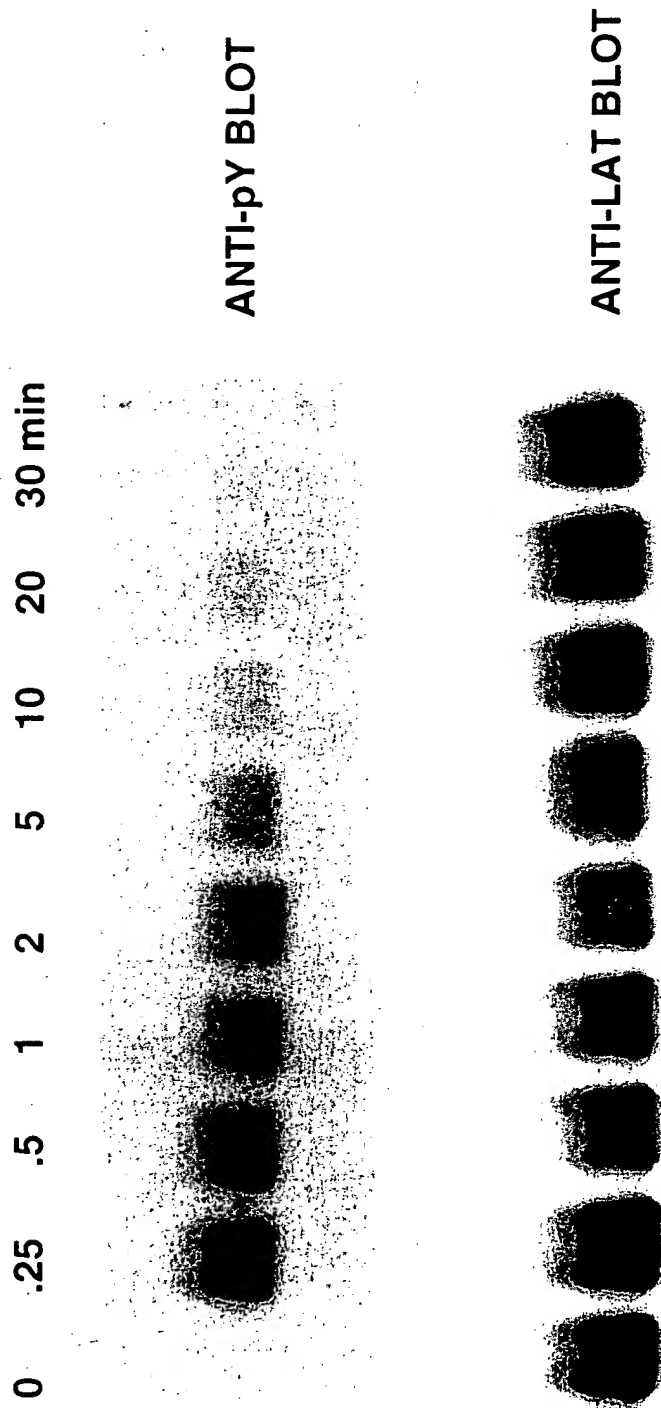


FIG. 2C

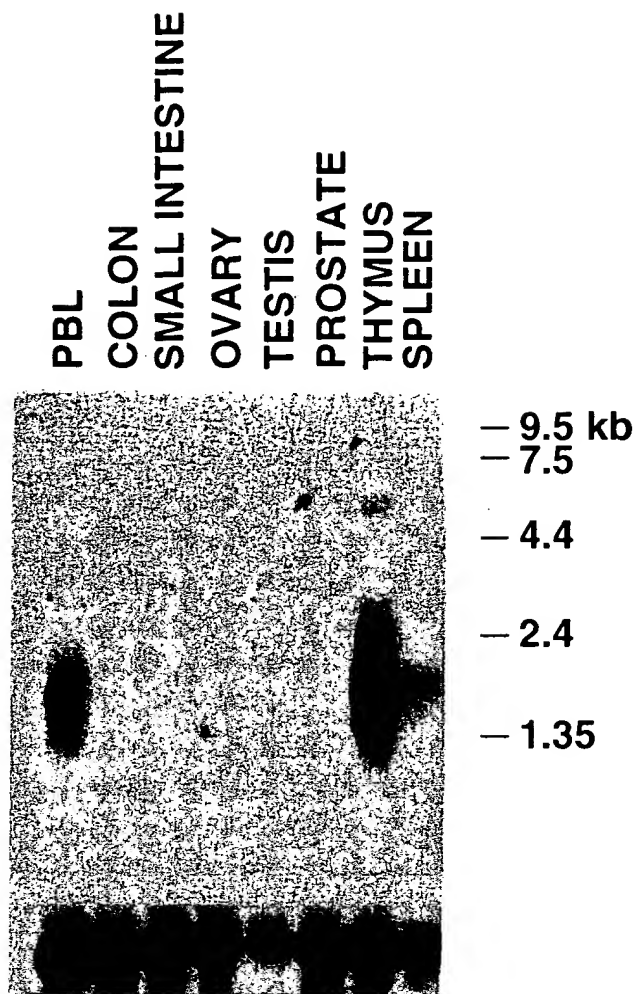


FIG. 3A

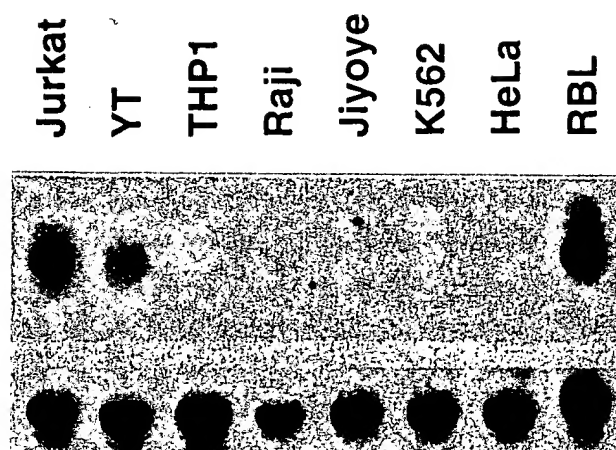


FIG. 3B

INPUT DNA:

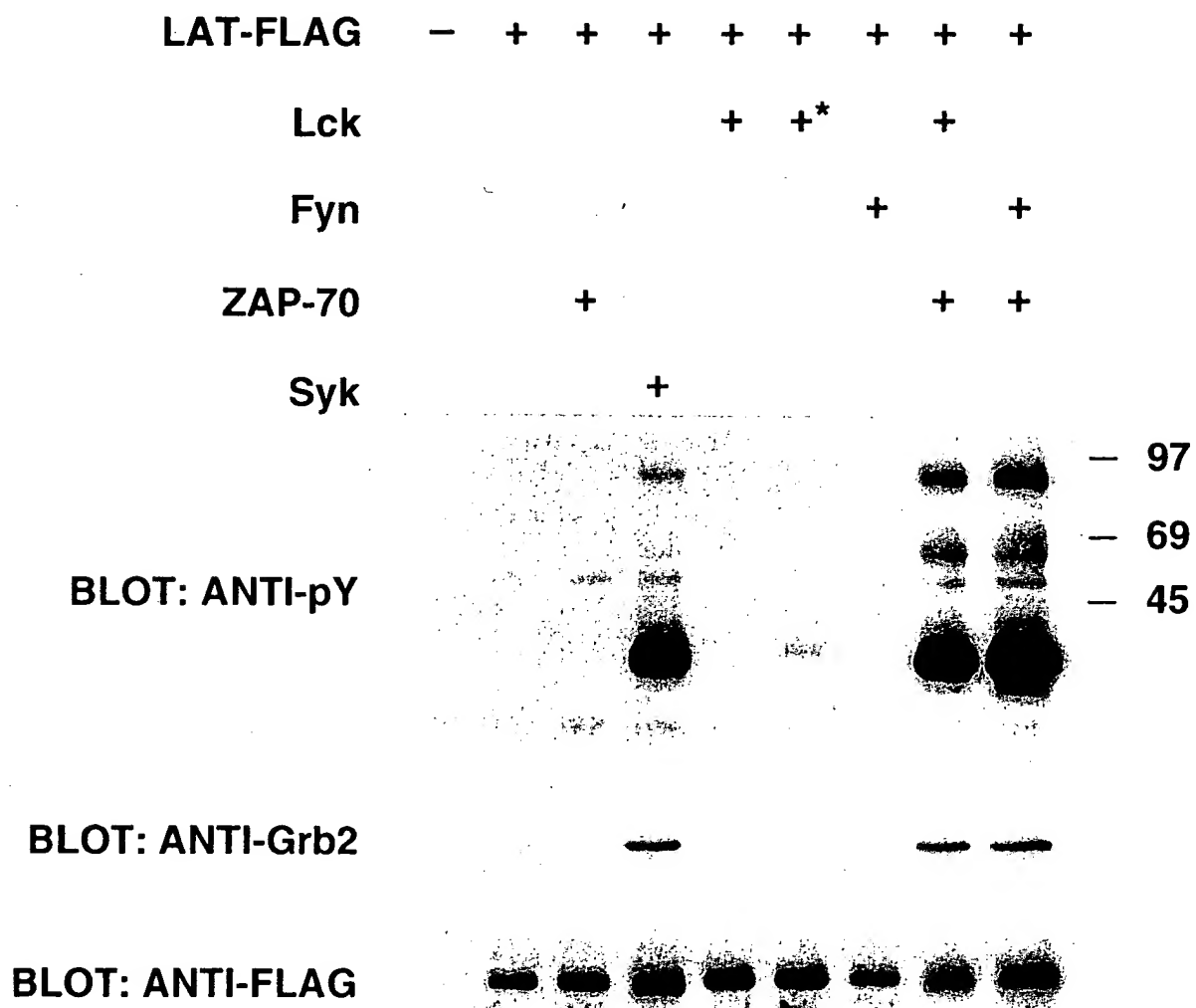
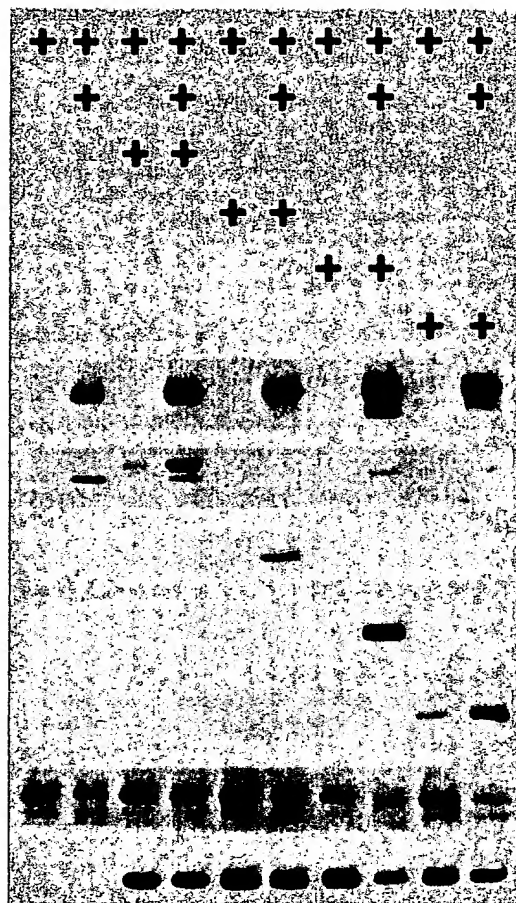


FIG. 4A

INPUT DNA:

LAT-FLAG
Lck + ZAP-70
Grb2-HA
Grap-myc
p85-HA
PLC- γ 1



BLOT:
ANTI-pY (LAT)
ANTI-Grb2
ANTI-myc (Grap)
ANTI-HA (p85)
ANTI-PLC- γ 1
ANTI-FLAG
Ab TO TEST
PROTEIN

Grb2
Grap
p85
PLC- γ 1

FIG. 4B

TRANSFECTION WITH Lck, ZAP-70 and LAT-FLAG PLUS:

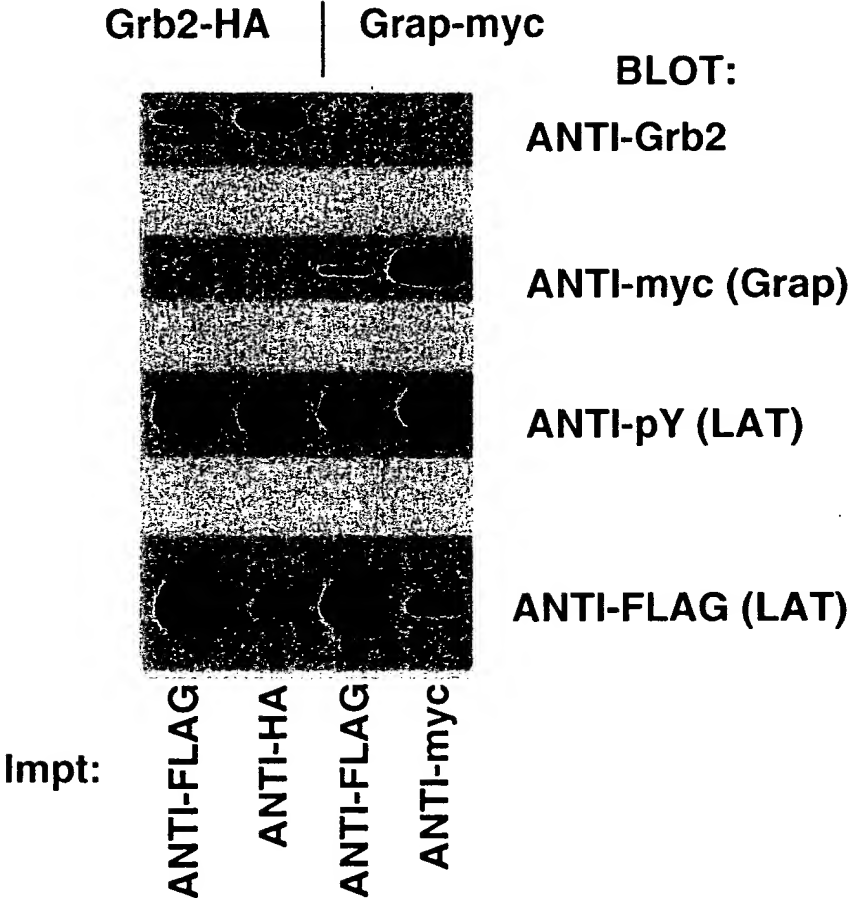


FIG. 4C

005730*026/6560

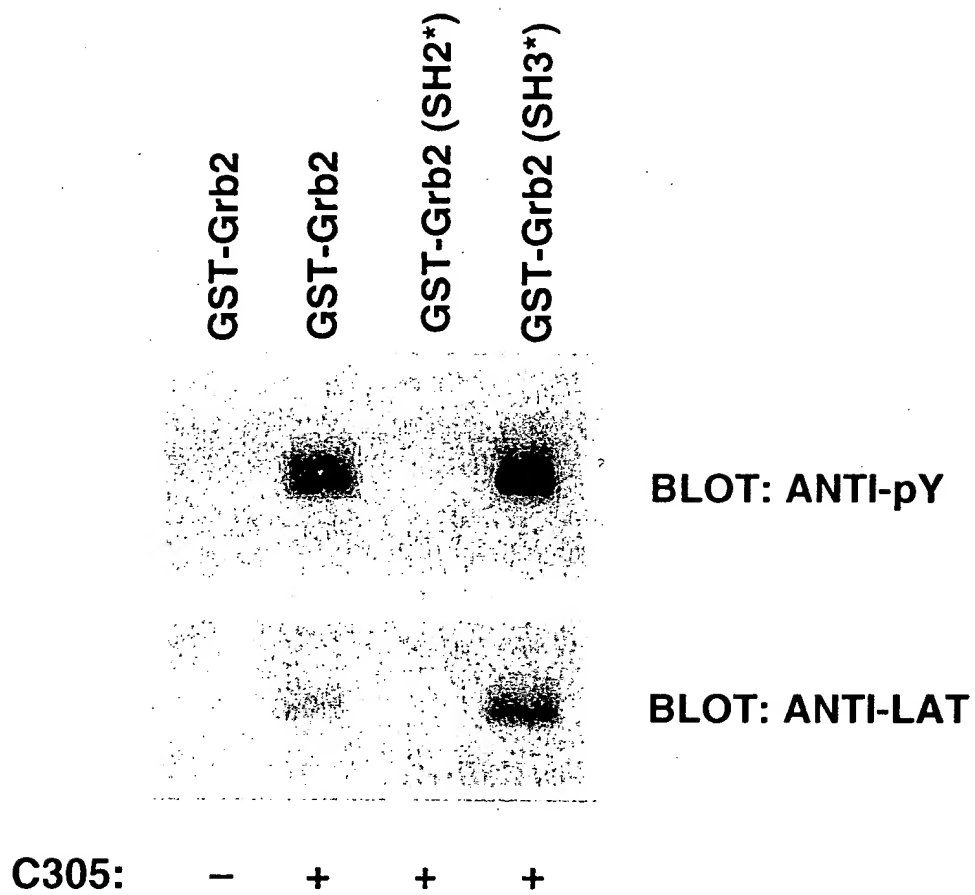
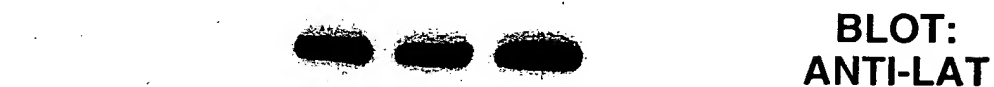
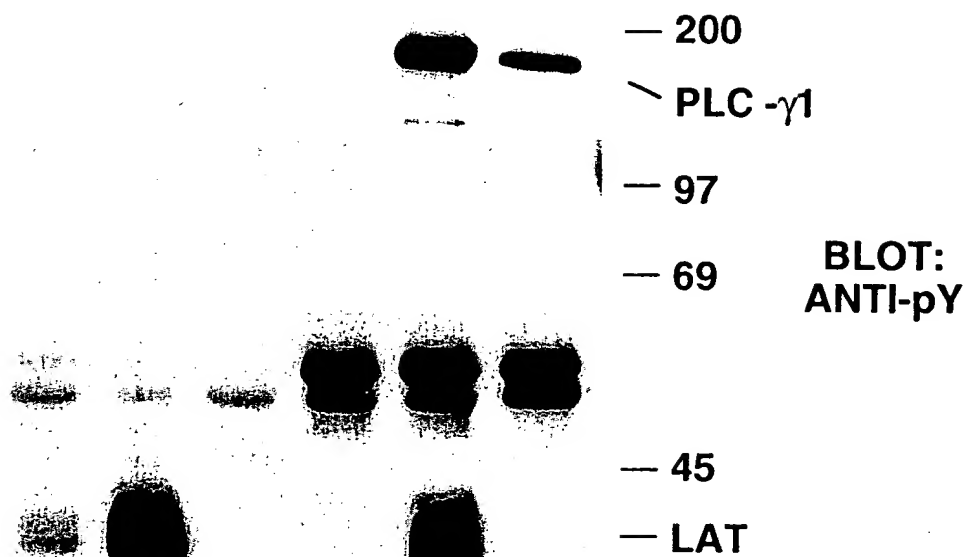


FIG. 5A

C305: - + + - + +



Impt: ANTI-Grb2 ANTI-PLC- γ 1

CIP: - - + - - +

FIG. 5B

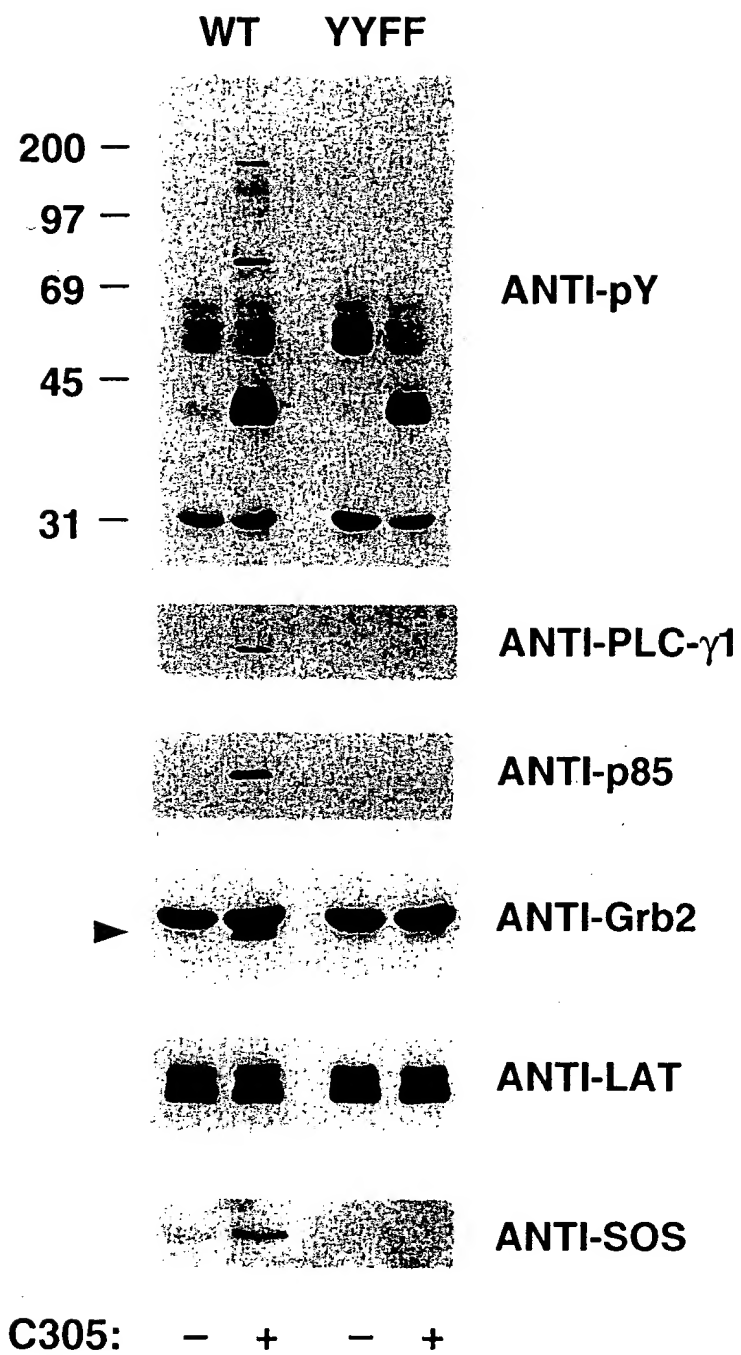


FIG. 6A

005130-0264660

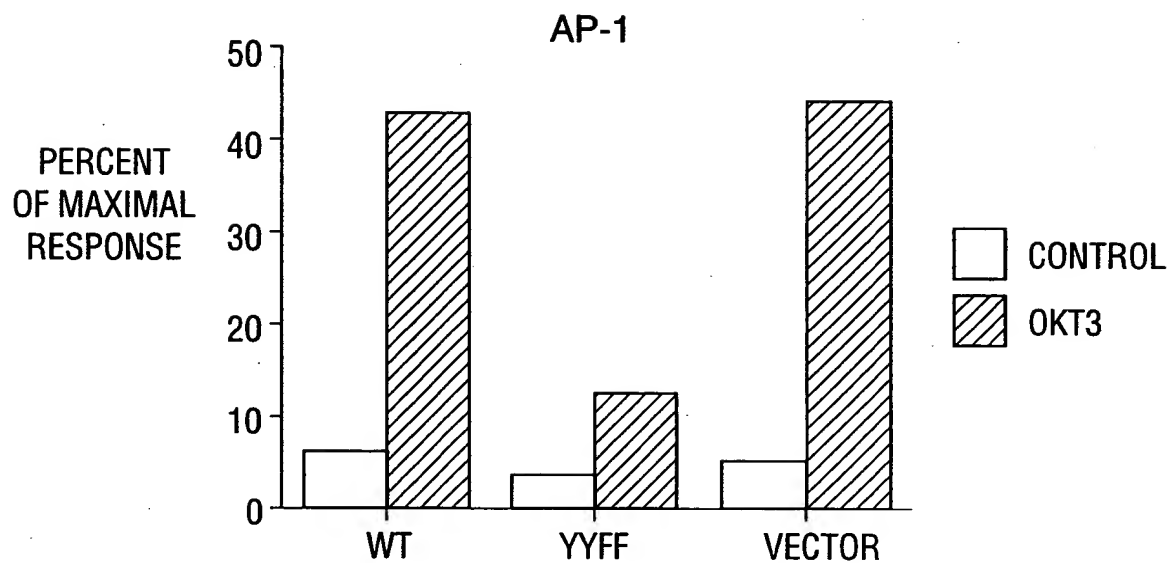


FIG. 6B

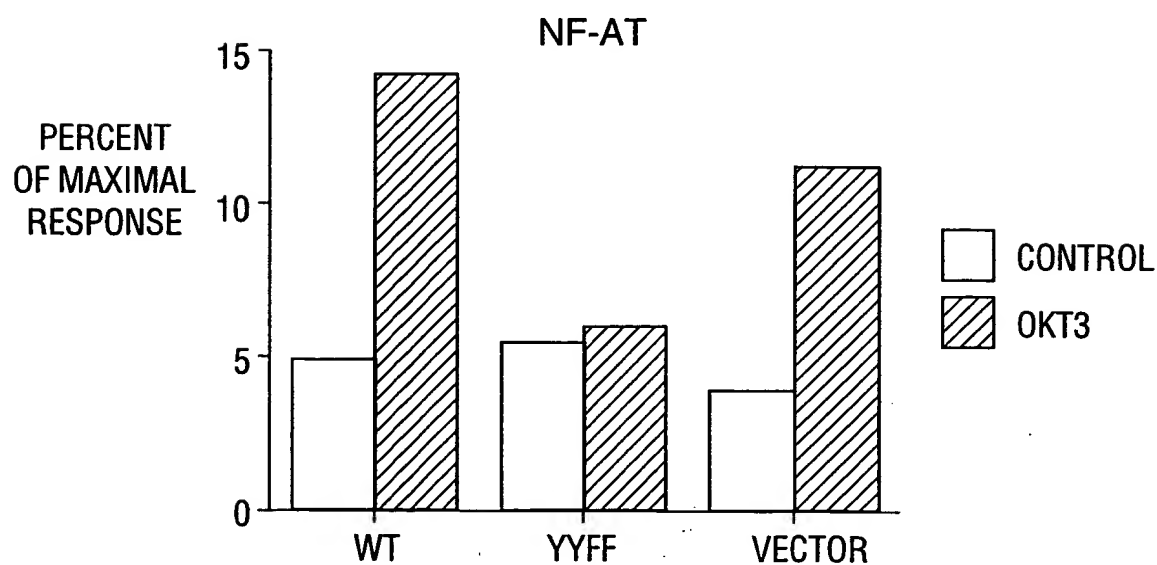


FIG. 6C

1. **Chlorophyll** is the green pigment in plants that captures light energy for photosynthesis.

Figure 7A

006790-02646560

Human LAT Nucleotide Sequence (1-1460), [alternative splice variant]

1 accccaatctt catctggcct tgactctgcc cttgaggggc ctagggtgc agccagcctg
61 ctccgagctc ccctgcagat ggaggaggcc atcctgggcc cctgcgtgct ggggctcctg
121 ctgctgcca tctggccat gttgatggca ctgtgtgtgc actgccacag actgccaggc
181 tctacgaca gcacatctc agatagttg tatccaagg gcatccagtt caaacggcct
241 cacacggttg cccctggcc acctgcctac ccacctgtca cctcctacc acccctgagc
301 cagccagacc tgctcccat cccaagatcc ccgcagcccc ttgggggtc ccaccggacg
361 ccatcttccc ggcgggattc tgatggtgcc aacagtgtgg cgagctacga gaacgaggg
421 gcgtctggga tccgagggtc ccaggctggg tggggagtct ggggtccgtc ctggactagg
481 ctgacccctg tgcgttacc ccagaacca gcctgtgagg atgcagatga ggatgaggac
541 gactatcaca acccaggcta cctggtggtg ctctctgaca gacccccgc cactagcact
601 gctgccccat cagctctgc actcagcacc cctggcatcc gagacagtgc ctctccatg
661 gattccattg atgattacgt gaacgttccg gagagcgggg agagcgcaga agcgtctctg
721 gatggcagcc gggagtatgt gaatgtgtcc caggaaactgc atcctggagc ggctaagact
781 gaggctgccg ccctgagttc ccaggaggca gaggaagtgg aggaagaggg ggctccagat
841 tacgagaatc tgcaggagct gaactgaggg cctgtggagg ccgagctgt cctggaacca
901 ggcttgccctg ggacggctga gctgggcagc tggaaagtgc tctgggggtc tcacatggcg
961 tctgcccctt gtccagcct gacaacagcc tgagaaatcc ccccgtaact tattatcact
1021 ttgggggttcg gcctgtgtcc cccgaacgct ctgcacctc tgacgcagcc tgagaatgac
1081 ctgccctggc ccagcccta ctctgtgtaa tagaataaag gcctgcgtgt gtctgtgtg
1141 agcgtgcgtc tgtgtgtgcc tgtgtgcag tctgagtcag agattggag atgtctctgt
1201 gtgtttgtgt gtatctgtgg gtctccatcc tccatggggg ctgagccagg tgctgtgaca
1261 ccccccttct gaatgaagcc ttctgacctg ggctggcact gctgggggtg aggacacatt
1321 gccccatgag acagtccag aacacggcag ctgctggctg tgacaatgtt ttaccatcc
1381 ttagaccaag ggatgggacc tgatgacctg ggaggactct tttagttctt acctctgtg
1441 gttctcaata aaacagaacg

Figure 7B

Murine LAT Nucleotide Sequence (1-1260)

1 ggcacgagca ggcggggagc aagaaagggg caggtacagc tgggcacggg gatcgtgcag
61 ctggtagctg gggcacgggc cccagctctg gctctggggc gagcaccttt ccagagccaa
121 cactgctctc aactcagtc agcaagagag gggagccatc cagccccgaa aggatacggc
181 tgcctactgc cgggcggatc ccaggctgga gcccgccttg tcccatacc ctcctgccac
241 tctgtctcga ggggctgcag tgcagcaggg cctgtggcag gtgctctgca gatggaagca
301 gacgcctga gcccggtagg gctggggctc ctgctgtgc cttcttggg cagctcctg
361 gctgccctgt gctgtgcctg ccgtgagttg ccagctcct atgacagcac ttccacagag
421 agtttgtacc caagaagcat cctcatcaag ccacctcaaa taaccgtccc ccgaacacct
481 gctgtttcct accctctagt cacttccttc ccacctga ggcagccaga cctgtcctcc
541 atcccgagat cccacagcc ccttgggggt tccatcgga tgcctcttc ccagcagaat
601 tcagatgatg ccaacagtgt ggcaagctac gagaaccagg agccagcctg taagaatgtg
661 gatgcagatg aggatgaaga cgactatccc aacggctacc tagtggtgct gcctgacagt
721 agtctgtg ccttccctgt tgtctctct gctcctgtgc ctagcaacct tgaccttgga
781 gacagtgcct tctctgtgga gtcgtgtgaa gattacgtga atgttctga gagtgaggag
841 agcgagagg cgtctctgga tgggagccgg gattatgta atgttctcc agagcagcag
901 ccagtacga gggctgagct ggctctgtg aactcccagg aggtggaaga cgaaggagaa
961 gaggaagggg tggatggaga ggaagctccc gactatgaga atctacagga gcttaactga
1021 aagcctactg cagctgtctg tctgaaact ggacttctg ggggtctgct aagaggatcc
1081 cattgatct ctgccttgc acagcctgag aatcttccc taacttattg tcactttggg
1141 gtccagtctg tgtcccaat attctgtacc ttctgataa gcctgagaat gaatctggt
1201 ccagccagac catgtcatgg aataaaggcc atgtgacata aaaaaaaaaa aaaaaaaaaa

Figure 7C

FIG. 7D

1 ggaatagggt agtttcagac aagcctgctt gccggagctc agcagacacc aggccttccc
 61 ggccaggcctg gccaccgtg ggccctcagag ctgctgctgg ggccatcaga accggctctc
 121 cattggcatt gggaccagag accccgcaag tggcctgttt gcctggacat ccacctgtac
 181 gtccccaggt ttggggaggc ccaggggcca tgcagaccc cgcggcgac ctgcccttct
 241 tctacggcag catctgcgt gccgaggccg aggagcacct gaagctggcg ggcatggcgg
 301 acgggctctt cctgctgcgc cagtgcctgc gctcgtggg cggctatgig ctgctgctg
 361 tgcacgatgt gcgttccac cacttccca tcgagcgcca gctcaacggc acctacgcca
 421 ttggggcgg caaagcgac tgtggaccgg cagagctctg cgagttctac tcgcgcgacc
 481 ccgacgggct gccctgcaac ctgcgcaagc cgtgcaaccg gccgtcgggc ctgagccgc
 541 agccgggggt ctgcactgc ctgcgagacg ccatgggtgc tgactacgtg cgccagacgt
 601 ggaagctgga gggcgaggcc ctggagcagg ccatcatcag ccaggccccg caggtggaga
 661 agtcattgc tacgacggcc cagagcgga tgccttgta ccacagcagc ctgacgcgtg
 721 aggaggccga gcgcaactt tactctgggg cgcagaccga cggcaagttc ctgctgaggc
 781 cgcggaagga gcagggcaca tacgccctgt ccctcatcta tgggaagacg gtgtaccact
 841 acctcatcag ccaagacaag gcgggcaagt actgcattcc cgagggcacc aagttgaca
 901 cgtctggca gctggtggag tatctgaagc tgaaggcgga cgggctcacc tactgcctga
 961 aggaggcctg ccccaacagc agtgccagca acgcctcagg ggctgctgt cccacactcc
 1021 cagccaccc atccacgtt actcatctc agagacgaat cgacaccctc aactcagatg
 1081 gatacaccct tgagccagca cgcataacgt cccagacaa accgcggccg atgccatgg
 1141 acacgagcgt gtatgagagc ccctacagcg acccagagga gctcaaggac aagaagctct
 1201 tctgaagcg cgataacctc ctcatagctg acattgaact tggctgcggc aactttggct
 1261 cagtgcgcca gggcgtgtac cgcattgcga agaagcagat cgacgtggcc atcaaggtgc
 1321 tgaagcaggg caggagaag gcagacacgg aagagatgat gcgcgaggcg cagatcatg
 1381 accagctgga caaccctac atcgtgcggc tcattggcgt ctgccaggcc gaggcctca
 1441 tgctggtcat ggagatggct gggggcgggc cgctgcacaa gttcctggtc ggcaagaggg
 1501 aggagatccc tgtgagcaat gtggccgagc tgcctgacca ggtgtccatg gggatgaagt
 1561 acctggagga gaagaactt gtgcaccgtg acctggcggc ccgcaacgtc ctgctggtta
 1621 accggcacta cgccaagatc agcgactttg gcctctcaa agcactgggt gccgacgaca
 1681 gtactacac tgcgcgtca gcagggaagt ggccgctcaa gtggtacgca cccgaatgca
 1741 tcaacttccg caagtctcc agccgcagcg atgtctggag ctatggggtc accatgtggg
 1801 aggcctgtc ctacggccag aagccctaca agaagatgaa agggccggag gtcattggct
 1861 tcatcgagca gggcaagcgg atggagtgcc caccagagt tccacccgaa ctgtacgcac
 1921 tcatgagtga ctgctggatc tacaagtggg aggatcgccc cgacttctg accgtggagc
 1981 agcgcatgcg agcctgttac tacagcctgg ccagcaaggt ggaagggccc ccaggcagca
 2041 cacagaaggc tgaggctgcc tctgctgag ctccgctgc ccaggggagc cctccacgcc
 2101 ggctctccc caccctcagc cccacccag gtcctgcagt ctggctgagc cctgcttgg
 2161 tctctccaca cacagctggg ctgtggtagg ggtgtctca ggccacaccg gccttgcatt
 2221 gctgcttg gccctgtcc tcttggtg gggagcaggg aggtccggga ggtgctggct
 2281 gtgcagcctg tctgggctg gtgctccc gagggccctg agctgagggc attgcttaca
 2341 cggatgcctt cccctgggcc ctgacattgg agcctgggca tctcagggtg gtcaggcgta
 2401 gatcaccaga ataaaccag ctccctctt gaaaaaaaa aaaaaaaaa aacc

Human ZAP-70 Nucleotide Sequence (1-2454)

Figure 8A

005790.00560

1 mpdpaahlpf fygsisraea eehklagma dglflrqcl rslggyvls vddvrfhhfp
61 ierqlngtya iaggkahcgp aelcqfysqd pdglpcnlm acnrppglep qpgvfdclrd
121 amvrdivrqt wklegdaleq aaisqapqve kliattaher mpwyhssltr eeaerklysg
181 qqtgkflr prkeqgtyal slvygktyh ylisqdkagk ycipegtkfd tlwqlveyk
241 lkadgliyrl kevcpnssas aavaaptlpa hpstftqqr rvdtnsdgy tpeparlass
301 tdkprmpmd tsyespysd peelkdkklf lkrenllvad ielgcgnfgs vrqgvymrk
361 kqidvaikvl kqgtekadkd emmreaqimh qldnpyivrl igvcqaealm lvmemagggp
421 lhfllgkke ipvsnvaelh hqvamgmkyll eeknfvhrl aarnvllvr hyakisdfgl
481 skalgadds yarsagkwp lkwyapecin frkfssrsdv wsygvtnwea fsyqkpykk
541 mkgpevlfdi kqgkrmecpp ecppemyalm sdcwiykwed rpdftveqr mnyyyylas
601 raegppqceq vaeaacg

Human ZAP-70 Amino Acid Sequence (1-617)

Figure 8B

1 gaggaagagc cgcgggcccc gcggctgagg ccacccggc ggcggtgga gagcgaggag
 61 gagcgggtgg ccccgcgctg cgcccgccct cgcctcacct ggcgaggtg gacacctgcg
 121 cagggtgtgt cctccggcc cctgaagcat ggccagcagc ggcatggctg acagcgccaa
 181 ccacctgccc ttcttttcg gcaacatcac ccgggaggag gcagaagatt acctggicca
 241 ggggggcatg agtcatgggc ttatttgc tgcgagagc cgcaactacc tgggtggctt
 301 cgccctgtcc tgggcccacg ggaggaaggc acaccactac accatcgagc gggagctgaa
 361 tggcacctac gccatgccg tggcaggac ccatgccagc cccgccgacc tctgccacta
 421 ccactcccag gactctgatg gcctgtctg cctcctcaag aagcccttca accggcccca
 481 aggggtgcag cccaagactg ggcccttga ggattgaag gaaaacctca tcagggaata
 541 tgtgaagcag acatggaacc tgcagggtca ggctctggag caggccatca tcagtcagaa
 601 gcctcagctg gagaagctga tgcctaccac agcccatgaa aaaatgcctt ggttccatgg
 661 aaaaatctct cgggaagaat ctgagcaaat tgcctgata ggaataaaga caaatggaaa
 721 gtctctgac cgagccagag acaacaacgg ctctacgcc ctgtgcctgc tgcacgaagg
 781 gaaggtgtct cactatcgca tcgacaaaga caagacaggg aagctctcca tccccgaggg
 841 aaagaagttc gacacgtctt ggcagctagt cgagcattat tctataaag cagatggtt
 901 gtaagagti cttactgtcc catgcaaaa aatcggcaca cagggaatg ttaattttg
 961 aggccttcca caactccag gtccccatcc tgcgtctcc cctgcccag ggaaccggca
 1021 agagagtact gtgtcattca atccgtatga gccagaactt gcaccttggg ctgcagacaa
 1081 agggccccag agagaagccc tacctatgga cacagaggtg tacgagagcc cctacgcgga
 1141 ccccgaggag atcaggccca aggagggtta cctggaccga aagctgctga cgctggaga
 1201 caaagaactg ggctctggtt attttggaac tgtgaaaaag ggctactacc aaatgaaaaa
 1261 agtttgaaa accgtggctg taaaataact gaaaacagag gccaatgacc ccgtcttaa
 1321 agatgagtta ttgacagaag caaatgtcat gcagcagctg gacaaccgt acatcgtgcg
 1381 gatgatcggg atatgcgagg ccgagtcctg gatgctggtt atggagatgg cagaactgg
 1441 tcccccaat aagtatttgc agcagaacag acatgtcaag gataagaaca tcatagaact
 1501 ggttcatcag gtttccatgg gcatgaagta ctggaggag agcaattttg tgcacagaga
 1561 tctggctgca agaatgtgt tgcatttac ccaacattac gccaatgca gtgatttcg
 1621 actttccaaa gcactgcgtg ctgatgaaa ctactacaag gccagaccc atggaaagt
 1681 gcctgtcaag tggtagctc cggaatgcat caactactac aagtttcca gcaaaagcga
 1741 tgtctggagc ttggagtgt tgatgtgga agcattctcc tatgggcaga agccatatc
 1801 agggatgaaa ggaagtgaag tcaccgtat gtagagaaa ggagagcgga tgggtgccc
 1861 tgcagggtgt ccaagagaga tgtacgatc catgaatctg tctggacat acgatgtga
 1921 aaacaggccc ggattcgag cagtgaact gcggctgcgc aattactact atgactgtg
 1981 gaactaacg ctcgccacc tgcgggtgc tgccttgat cacaggagca atcacaggaa
 2041 aatgtatcca gaggaattga ttgcagcca cctccctctg ccagtcggga gagccaggt
 2101 tggatggaac atgccacaa ctgtcaccc aaagcctgtc ccaggactca cctccacaa
 2161 agcaaaggca gtcccgggag aaaagacgga tggcaggatc caaggggcta gctggattt
 2221 ttgtttct tgtctgtgt atttcatac aggtatttt tacgatctgt ttccaaatcc
 2281 ctltcatgtc ttccacttc tctgggtccc ggggtgcatt tgttactcat cgggccagg
 2341 gacattgcag agtggcctag agcacttca cccaagcgg cttttccaa atgccaaag
 2401 atgccttagc atgtgactcc tgaagggaag gcaaaggcag aggaatttgg ctgcttctac
 2461 ggccatgaga ctgatccctg gccactgaaa agctttctg acaataaaaa tgtttgagg
 2521 ctttaaaaa aaaaaaaaaa a

Human Syk Kinase Nucleotide Sequence (1-2541)

Figure 9A

00597920.061500

1 massgmadsa nhlpfffgni treeaedlyv qggmsdglyl lrqsrnylgg falsvahgrk
61 ahhytierel ngtyaiaggr thaspdlch yhsqesdglv clkkpfnrp qgvqpktgpf
121 edlkenlire yvkqtnlqg qaleqaiisq kpqlekliat tahekmwfh gkisreeseq
181 ivligsktng kflirardnn gsyalcille gkvlyhrydk dktgklsipe gkkfdtlwql
241 vehysykadg llrvltvpcq kigtqgnvnf ggrpqlpgsh passpaqgnr qestvsfnpy
301 epelapwaad kgpqrealpm dtevyespya dpeeirpkev yldrklitle dkelgsgnfg
361 tvkkgyyqmk kvvktvavki lkneandpal kdellaeav mqqldnpyiv rmigiceaes
421 wmlvmemael gpinkylqn rhvkdniie lvhqvsimgmk ylesnfvhr dlaarnvllv
481 tqhyakisdf glskalrade nyykaqthgk wpvkwyapac inyykfssks dvwsfgvlmw
541 eafsygqkpy rgmkgsevt mlekgermgc pagcpremyd lnnlcwtydv enrpgfaave
601 lrlmnyydv vn

Human Syk Kinase Amino Acid Sequence (1-612)

Figure 9B

006790"02676560

1 gccagtgaat tggggggtc agccctctc cctccctcc cctgcttca ggcgtctgag
61 cactgagcag cgctcagaat ggaagccatc gccaaatatg acttcaaagc tactgcagac
121 gacgagctga gcttcaaaag gggggacatc ctcaagggtt tgaacgaaga atgtgatcag
181 aactggtaca aggcagagct taatggaaaa gacggcttca ttccaagaa ctacatagaa
241 atgaaaccac atccgtggtt ttttgcaaa atccccagag ccaaggcaga agaaatgctt
301 agcaaaccagc ggcacgatgg ggcctttctt atccgagaga gtgagagcgc tcttggggac
361 ttctccctct ctgtcaagtt tggaaacgat gtgcagcact tcaagggtct ccgagatgga
421 gccgggaagt acttctctg ggtggtgaag ttcaattctt tgaatgagct ggtggattat
481 cacagatcta catctgtctc cagaaaccag cagatatctc tgcgggacat agaacagggtg
541 ccacagcagc cgacatacgt ccaggccctc ttgactttg atccccagga ggatggagag
601 ctgggcttcc gccggggaga tttatccat gtcattgata actcagaccc caactggtgg
661 aaaggagctt gccacgggca gaccggcatg ttccccgca attatgtcac ccccgtaac
721 cggaacgtct aagagtcaag aagcaattat ttaaagaaag tgaaaaatgt aaaacacata
781 caaaagaatt aaaccacaa gctgcctctg acagcagcct gtgagggagt gcagaacacc
841 tggccgggtc accctgtgac cctctcactt tggttggaac tttaggggtt gggagggggc
901 gtggattta aaaatgcaa aacttaccta taaattaaga agagttttta ttacaaattt
961 tcactgtgc tctctttcc cctcctttgt cttttttt atccttttt ctctctgtc
1021 catcagtga tgacgtttaa ggccacgtat agtcctagct gacgccaata ataaaaaca
1081 agaaacccaa aaaaaaaaaac ccgaattca

Human Grb Nucleotide Sequence (1-1109)

Figure 10A

1 meaiakydfk ataddelsfk rgdilkvlne ecdqnwykae lngkdgfipk nyiemkphpw
61 ffgkipraka eemlskqrhd gaflirese apgdfslsvk fgndvqhfkv lrdgagkyfl
121 wvfkfnsln lvdylrstsv smqqiflrd ieqvpqqpty vqalfdfdpq edgelgfrg
181 dfihvmdnsd pnwwkgachg qtgmfpmyv tpvnrnv

005790 0264650

Human Grb Amino Acid Sequence (1-217)

Figure 10B

1 ctaggcttiti gcaaaaagct tcacgtgcc gcaagcatic agggcgcaag ggctgctaaa
 61 ggaagcggaa cacgtagaaa gccagtccgc agaacgggtg ctgaccccg atgaatgtca
 121 gctactgggc tatctggaca agggaaaacg caagcgcaaa gagaaagcag ttctgtgcc
 181 ttaagaacat tagaaccttc ctgtccacct gctgtgagaa gticggcctc aagcggagcg
 241 agccttcga agcctttgac ctcttcgatg tgcaggattt tggcaaggtc atctacccc
 301 tgtctgctct gtcttgacc ccgatcgccc agaacagggg gatcatgccc tccccaccg
 361 aggaggagag ttaggtgat gaagacatct acagtggcct gtccgaccag atcgacgaca
 421 cgggtggagga ggataggac ctgtatgact gcgtggagaa tgaggaggcg gaaggcgacg
 481 agatctatga ggacctatg cgctcggagc ccgtgtccat gccgccaag atgacagagt
 541 atgacaagcg ctgctgtgc ctgcgggaga tccagcagac ggaggagaag tacactgaca
 601 cgctgggctc catccagcag cattcttga agccccgca acggttctg aaacctcaag
 661 acattgagat catctttac aacattgagg acctgcttcg tgtcatact cacttctaa
 721 aggagatgaa ggaagccctg ggcaccctg gcgcaccgaa tctctaccag gtcttcatca
 781 aatacaagga gaggttctc gtctatggcc gctactgcag ccagggtggag tcagccagca
 841 aacacctgga ccgtgtggcc gcagcccgagg aggacgtgca gatgaagctg gaggaatgtt
 901 ctacagagc caacaacggg aggttactg cgcgacctgc tgatgggtcc tatgcagcga
 961 gtctcaaat atcacctct tctccaggag ctggtgaaac acacgcagga ggcgatggag
 1021 caaggaaact gcggctggcc ctggatgcca tgagggacct ggctcagtgc gtgaacgagg
 1081 tcaagcgaga caacgagaca ctgcgacaga tccaattt ccagctgtcc attgagaacc
 1141 tggaccagtc tctggctcac tatggccggc ccaagatcga cggggaaac aagatcacct
 1201 cggtggaacg gcgtcccaag atggacaggt atgcttct gctcgacaaa gctctactca
 1261 tctgtaagcg caggggagac tctatgacc tcaaggactt tgtaaacctg cacagcttcc
 1321 aggttcggga tgacttca ggagaccgag acaacaagaa gtggagccac atgttctcc
 1381 tgatcgagga ccaaggtgcc cagggctatg agctgttctt caagacaaga gaattgaaga
 1441 agaagtggat ggagcagttt gagatggcca tctccaacat ctatccggag aatgccaccg
 1501 ccaacgggca tgacttcag atgttctct ttgaggagac cacatcctgc aaggcctgtc
 1561 agatgctgct tagaggtagc ttctatcagg gctaccgtg ccatcgggtc cgggcatctg
 1621 cacacaagga gtgtctggg agggctcctc catgtggccg acatgggcaa gatttccag
 1681 gaactatgaa gaaggacaaa ctacatcgca gggctcagga caaaaagg aatgagctgg
 1741 gtctgcccaa gatggagggt tticaggaat actacgggct tctccacc cctggagcca
 1801 ttggacctt tctacggctc aacctggag acatttgga gctcacgaag gctgaggctg
 1861 aacagaactg gtgggagggc agaaatacat ctactaatga aattggctgg ttcttctga
 1921 acagggtgaa gcctatgtc catggccctc ctacaggacct gtctgttcat ctctggtacg
 1981 caggcccat ggagcgggca ggggcagaga gcatcctggc caaccgctc gacgggactt
 2041 tcttggtgcg gcagagggtg aaggatgcag cagaatttgc catcagcatt aaatataacg
 2101 tggaggtaaa gcacacggtt aaaatcatga cagcagaagg actgtaccg atcacagaga
 2161 aaaaggctt cggggggctt acggagctgg tggagttta ccagcagaac tctctaaagg
 2221 attgttcaa gtctctggac accaccttgc agtccccct caaggagcct gaaaagagaa
 2281 ccatcagcag gccagcagtg ggaagcaca agtattttg cacagccaaa gcccgctatg
 2341 acttctgcgc ccgtgacctg ttagagctgt cgctcaagga ggtgacatc atcaagatcc
 2401 ttaacaagaa gggacagcaa ggctgtggc gaggggagat ctatggccgg gtggctgggt
 2461 tccctgcaa ctactggag gaagattat ctgaalactg ctgagccctg gtgccttggc
 2521 agagagacga gaaactccag gctctgagcc cggcgtggcg aggcagcgga ccaggggctg
 2581 tgacagctcc ggcgggtgga gactttgga tggactggag gaggccagcg tccagctggc
 2641 ggtgctccc ggatgtgcc tgacatggtt aatttataac acccgattt tctcttggg
 2701 tcccccaag cagacggggg ctcaagggg ttacatttaa taaaaggatg aagatgg

Human Vav Nucleotide Sequence (1-2757)
Figure 11A

006700 0254550

1 mnvsywaiwt renasakrkq flclknirtf lsccekfgl krselfeafd lfdvqdfgkv
61 iytlsalswt piaqngimp fpteesvgd ediyglsdq iddtveeded lydcveneea
121 egdeiyedlm rsepvmppk mteydkrccc lreiqteek ydtlgsiqq hflkplqrfl
181 kpqdieiifi niedllrvht hflkemkeal gtpgapnlyq vfikykerfl vygrycsqve
241 saskhldrva aaredvqmkl eecsqrannng rftarpadga yaassqispp spgagethag
301 gdgarklrla ldamrdlaqc vnevkrdnet lrqitnfqls ienldqslah ygrpkidgel
361 kitsverrsk mdryaflldk allickrrgd sydlkdfvnl hsfqvrddss gdrdnkkwsh
421 mflledqga qgyelfftr elkkkwmeqf emaisniype natanghdfq mfsfeettsc
481 kacqmllrgt fyqgyrchrcrasahceclg rvppcgrhgq dfpgtmkkdk lhrraqdkkr
541 nelglpkmev fqeyyglppp pgaigpflrl npgdiveltk aaeqnwweg mntstneigw
601 fpcnrvkpyv hgppqdlsvh lwyagpmera gaesilanrs dgtflvrqrv kdaaeafaisi
661 kynvevkhtv kimtaeglyr itekkafrgl telvefyqqn slkdcfsld tlqfpfkep
721 ekrtisrpav gstkyfgtak arydfcardr selslkegdi ikilnkkqq gwwrgeiygr
781 vgwfpanyve edyseyc

Human Vav Amino Acid Sequence (1-797)

Figure 11B

1 gaattccggg cccggatagc cggcggcggc ggccggcggc ggcggcggc cggccgggag
61 aggccctcc ttacgccct gcttctccc ctgcctgca gtcgagccga gccggcggac
121 ccgcctgggc tccgacctg cccaggccat ggccggcaac gigaagaaga gctctggggc
181 cggggggggc acgggctccg ggggctcggg ttgggtggc ctgattgggc tcatgaagga
241 cgccttcag ccgcaccacc accaccacca ccacctcagc cccaccgc cggggacggc
301 ggacaagaag atgggggaga agtgctggaa gctcatggac aagggtggc ggttgtgca
361 gaaccaaag ctggcgctaa agaatagcc acctatac ttagacctg taccagatac
421 ctaccagat ctccgtacta tctgtcaag atatgagggg aagatggaga cacttggaga
481 aaatgagat tttaggtgt ttatggagaa ttgatgaag aaaactaagc aaaccataag
541 cctctcaag gagggaaaag aaagaatga tggaggagaat ttcagccta ggcgaacct
601 aaccaaactg tccctcatct tcagccacat gctggcagaa ctaaaaggaa tcttccaag
661 tggactctt caggagaca catttcggat tactaaagca gatgctcgg aatttggag
721 aaaagcttt ggggaaaaga caatagtcct ttggaagagc ttgcacagg ctctacatga
781 agtgcaccc atcagttctg ggctggaggc catggctctg aaatccacta ttgatctgac
841 ctgaatgat tatattcgg ttttgaatt tgacatctt acccgactct ttcagccctg
901 gtctctttg ctcaggaatt ggaacagcct tctgttaact catcctggct acatggctt
961 ttgacgtat gacgaagtga aagctcggct ccagaaatc attcacaac ctggcagtta
1021 tatctccgg ctgagctga ctgctcggg tcagtgggct attgggtatg ttactgctga
1081 tgggaacatt ctccagacaa tccctcaca taaaccttc ttcaagcac tgattgatg
1141 ctccaggaa ggcttctatt tgttctga tggacgaat cagaatcctg atctgactgg
1201 ctatgtga ccaactccc aagaccatg caaagtacc caggaacaat atgaattata
1261 ctgtgagat ggctccacat tccaactatg taaatatgt gctgaaatg ataaggatg
1321 aaagattgag cctgtggac acctcatgt cacatcctg ctacatcct ggcaggaatc
1381 agaaggtcag ggctgctt tcgccgatg tgaattaaa ggtactgaac ccatcgtgt
1441 agatcgtt gatcctagag ggagtgagc cctgtgagg caaggagcag agggagctcc
1501 ccccccaat tatgatgat atgatgatg acgagctgat gatactct tcatgatga
1561 ggaattggt ggtgccaagg tggacggc gccttctca tctccatgg cccacaagg
1621 ttccttccc ccggtgccac cagactga cttctgcc cagcgagat gtgtccctc
1681 aagtgtct gctttgaa ctgctctaa ggctgtctt ggctccctc ataaagaca
1741 accattgca gtacctcca cacttgaga tctccacca ccaccgctc cagaccggc
1801 atattctg ggagcagaat ccgacctca aagacggc ttgcttga caccaggcga
1861 ctgtccctc agagacaaac tgcctctgt ccccttagc cgccttgag actcatggc
1921 gcccggcca atccccaaag taccagtac tgcaccaag tccagtatg cctggacagg
1981 aagagaatta accaaccggc actcactcc atttcttg cctcacaaa tggagcccag
2041 accagatgt cctaggctg gaagcacgt cagtctggat acctcatga gtatgaatg
2101 cagccatta gtaggccag agtgtagca ccccaaatc aaacctct catctgcaa
2161 tgcatttat tctctgctg ccagacctt tctgtgca aaactgccac ctggggagca
2221 atgtagggt gaagaggaca cagagtacat gactcctct tccaggcctc tacggcctt
2281 ggataaccc cagagttcac gagcatgta ttgcgaccag cagattgata gctgtacga
2341 tgaagcaatg tataatatc agtccaggc gccatctac accgagagca gcaccttgg
2401 tgaagggaat ttggccgag cccatgcaa cactgtgcc gaggagtcag aaatgagga
2461 tgatgggtat gatgtccaa agccacctg gccggccgt ctggccgcc gaactctc
2521 agatctct aatgccagct cctcttgg ctggtgtct ctggatgtg atctacaac
2581 aaatgtact gaaggtccc aagttccga gaggcctca aaaccattc cgcggagaat
2641 caacttgaa cggaaagctg gcagctgca gcaaggtagt ggtcctgcc cctctgtgc
2701 caccgctca cctcagctc ccagttagat cgagaacct atgagtcagg ggtactcta
2761 ccaggacatc cagaagctt tggctatgc ccagaacaac atcgagatgg ccaaaaacat
2821 cctcgggaa ttgtttcca ttcttccc tgcctatga gctacctagc acaccatct
2881 cctgtctgag gtttagagga ccagttagt gggagtatt actcaagtgg cacctagaag
2941 ggaggagat ccttgggtga ctccacagt aagcttgc ctctgttg gatcacat
3001 cagtgttcc aagattcaa agtgggaaa tgaatatga gcagctagta tgtttatta
3061 tttatgggt ctgagtgca ttgaaggc

Human Cbl Nucleotide Sequence (1-3090)

Figure 12A

005190*026/6566

1 magnvkkssg agggsgsgsg aggliglmkd afqphhhhhh lshppctvd kkmvekcwkl
61 mdkvvrlcqn pnvalknspp yildllpdy qhlrtvlsry egkmetlgen eyfrvfmnl
121 mkktkqtisl fkegkermeye ensqprnlt klslifshml aelkgifpsg lfqgdtrfrit
181 kadaaefwrk afgektivpw ksfrqalhev hpissgleam alkstidlte ndyisvfefd
241 iftrlfqpw sllrnwnsla vthpgymafl tydevkarlq kfihkpgsyi frlsctrlgq
301 waigyvtadg nilqtiphmk plfqalidgf regfylfpdg mqnnpdltgl ceptpqdhik
361 vtqicaendk dvkiepcghl mctscitswq esegqgcpfc rceikgtepi vvdpdfprgs
421 gsllrqgaeg apspnydddd deraddslfm mkelagakve rpsspfsmay qaslpvppr
481 ldllqrapv pastsvlga skaasgslhk dkplpipptl rdlppppppd rpysvgaetr
541 pqrplpctp gdcpsrdklp pvpssrpgds wlsrtipkvp vatpnpgdpw ngreltnrhs
601 lpfslpsqme pradvprlgs tfsldtsmtm nsspvagpes ehpkipssss anaiyslaar
661 plmpklppg eqgeseedte ymtptsrvg vqkpepkrpl eatqssracd cdqqidsety
721 eamytisqa lsvaensag egnlatahts tgpeesened dgydvpkppv pavlartrls
781 disnasssfq wlsldgdptn fnegsqvper ppkpfprin serkassyqq gggatanpva
841 tapspqlsse ierlmsqgys yqdiqkalvi ahnniemakn ilrefvsiss pahvat

Human Cbl Amino Acid Sequence (1-896)

Figure 12B

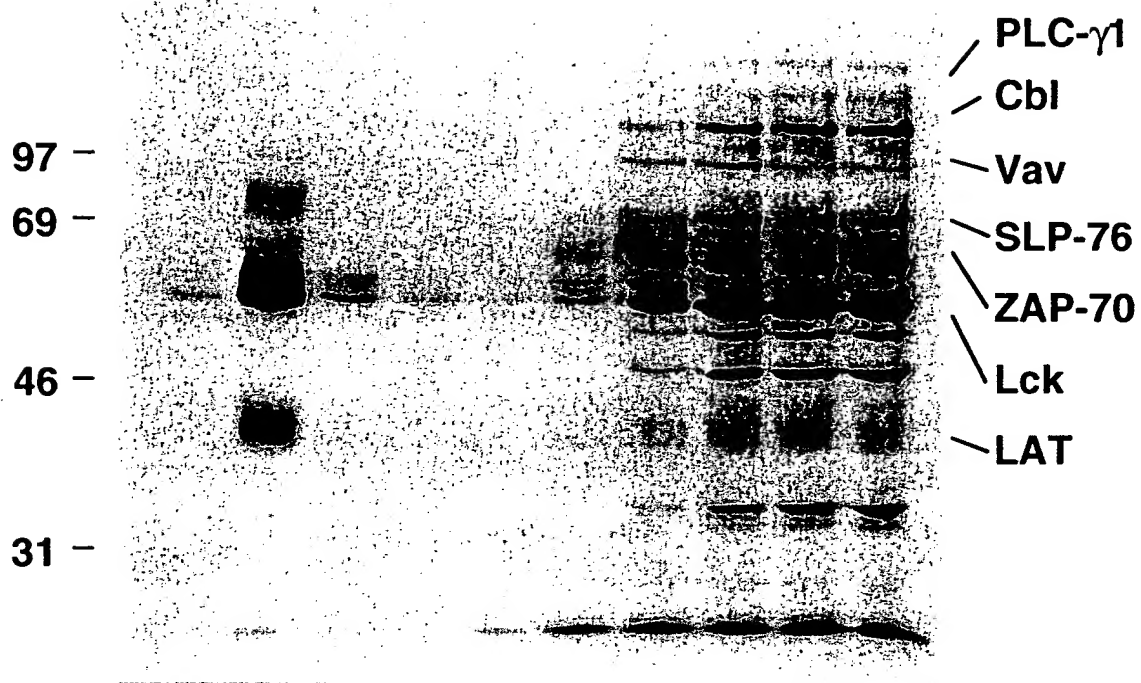


FIG. 13A

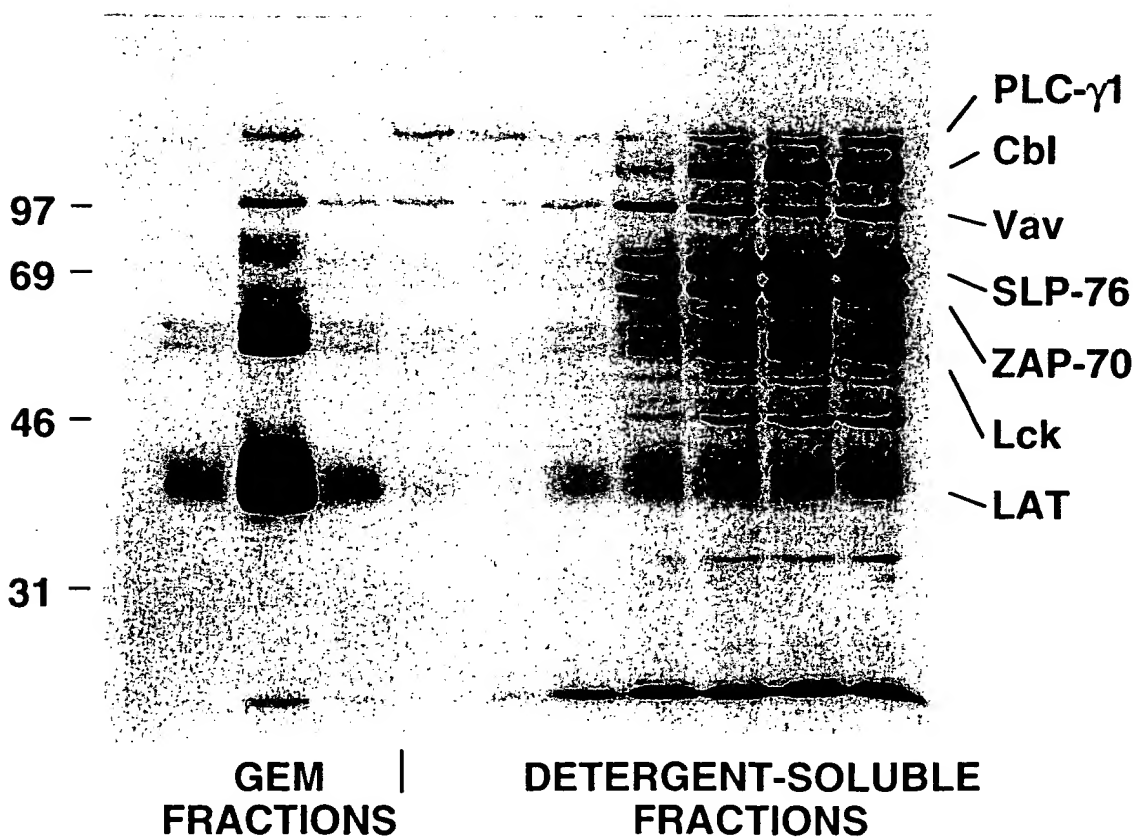


FIG. 13B

006130" 026/550

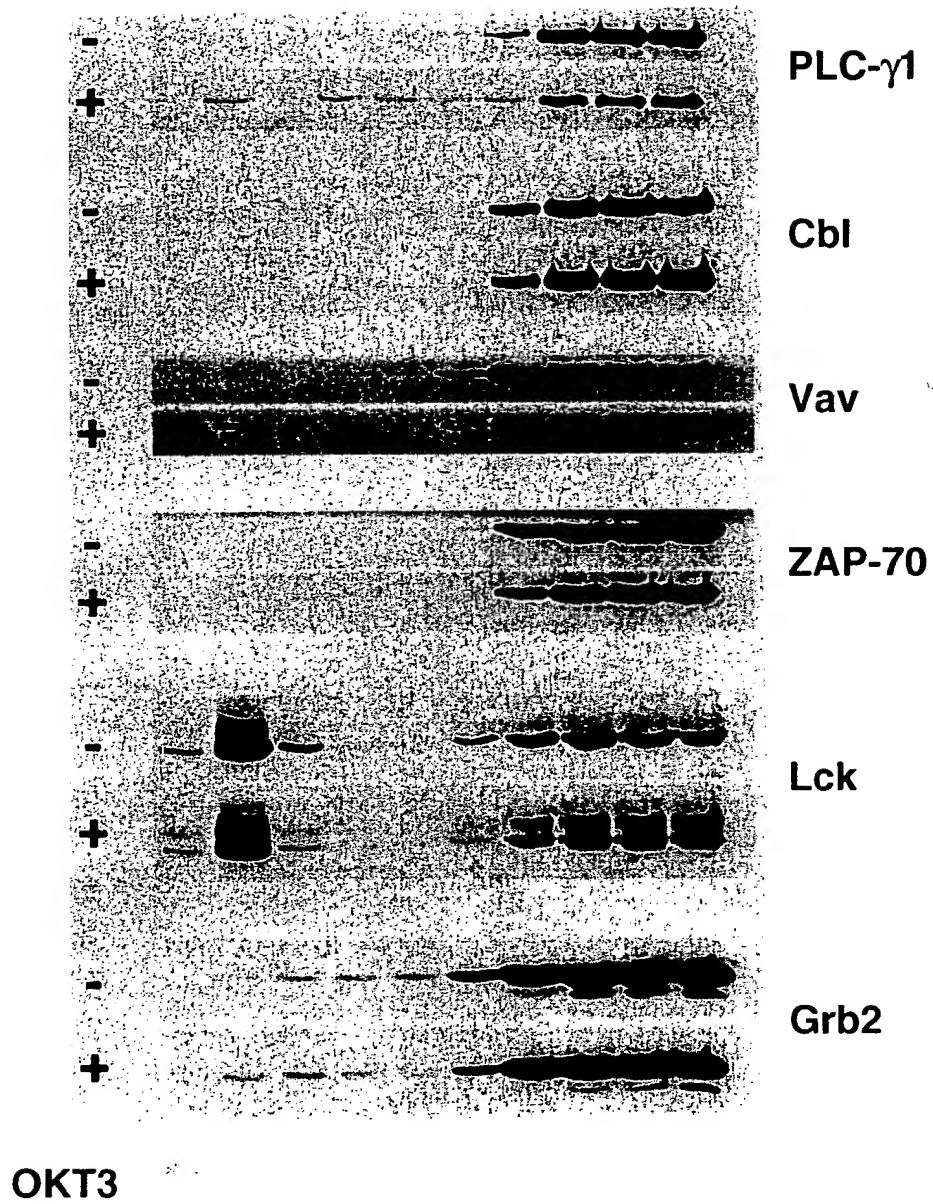


FIG. 13C

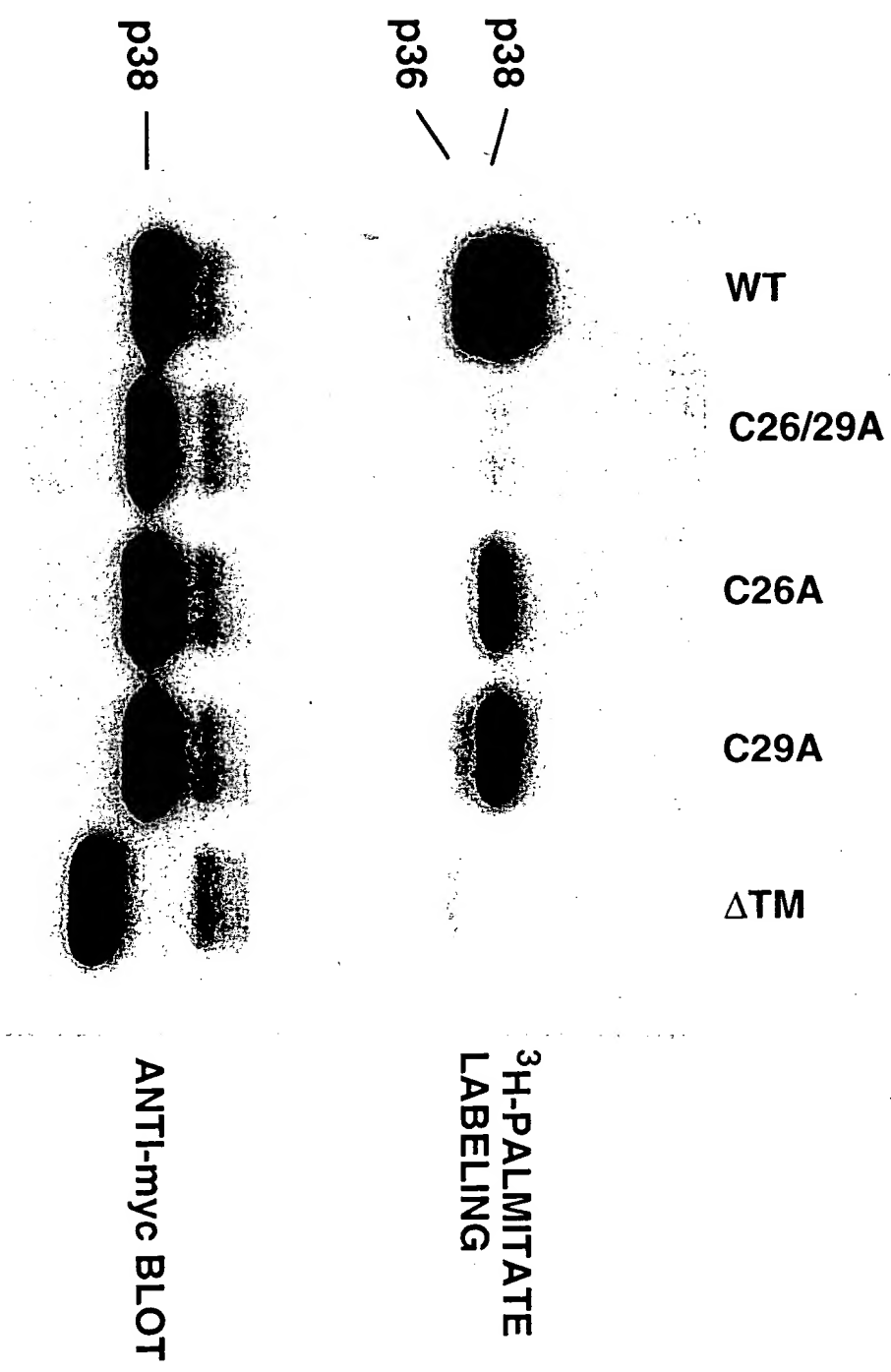


FIG. 14

09597920.001400

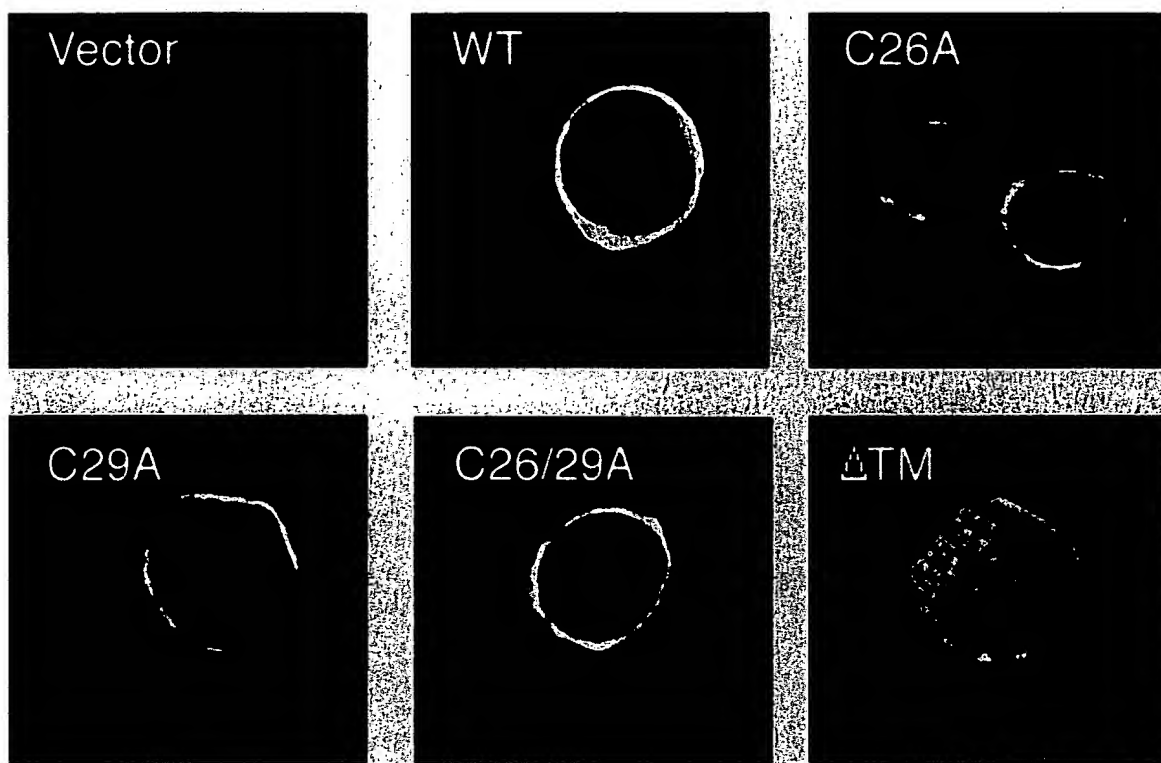


FIG. 15A

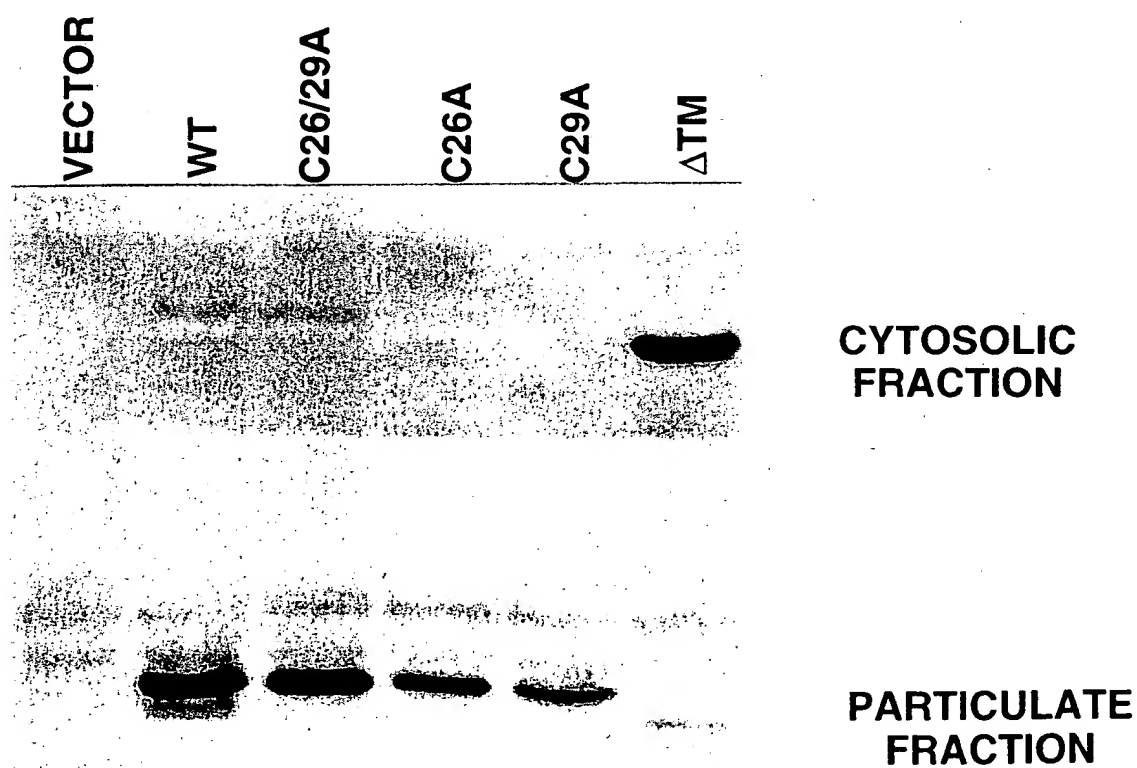


FIG. 15B

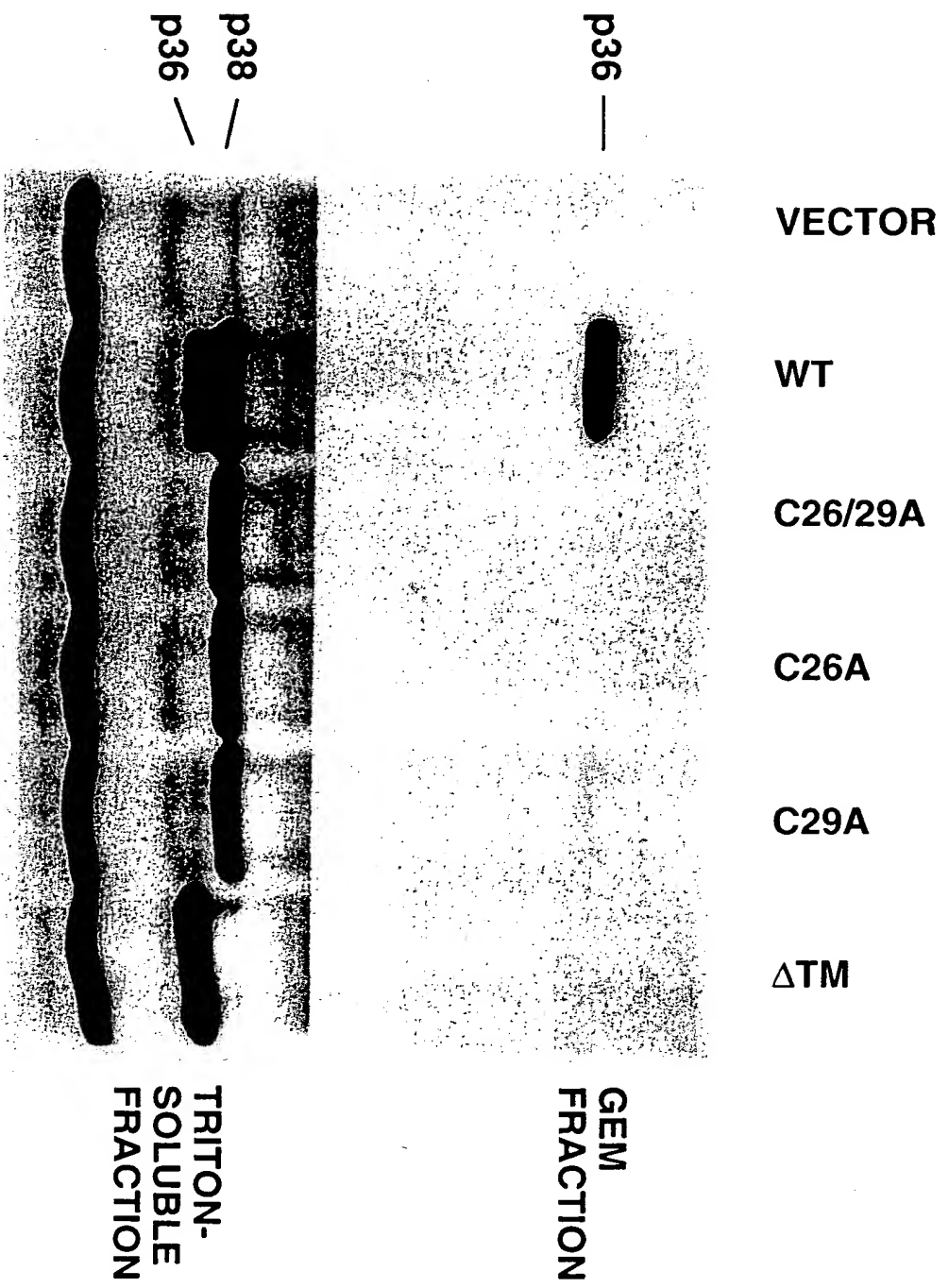


FIG. 15C

09597920.001.900

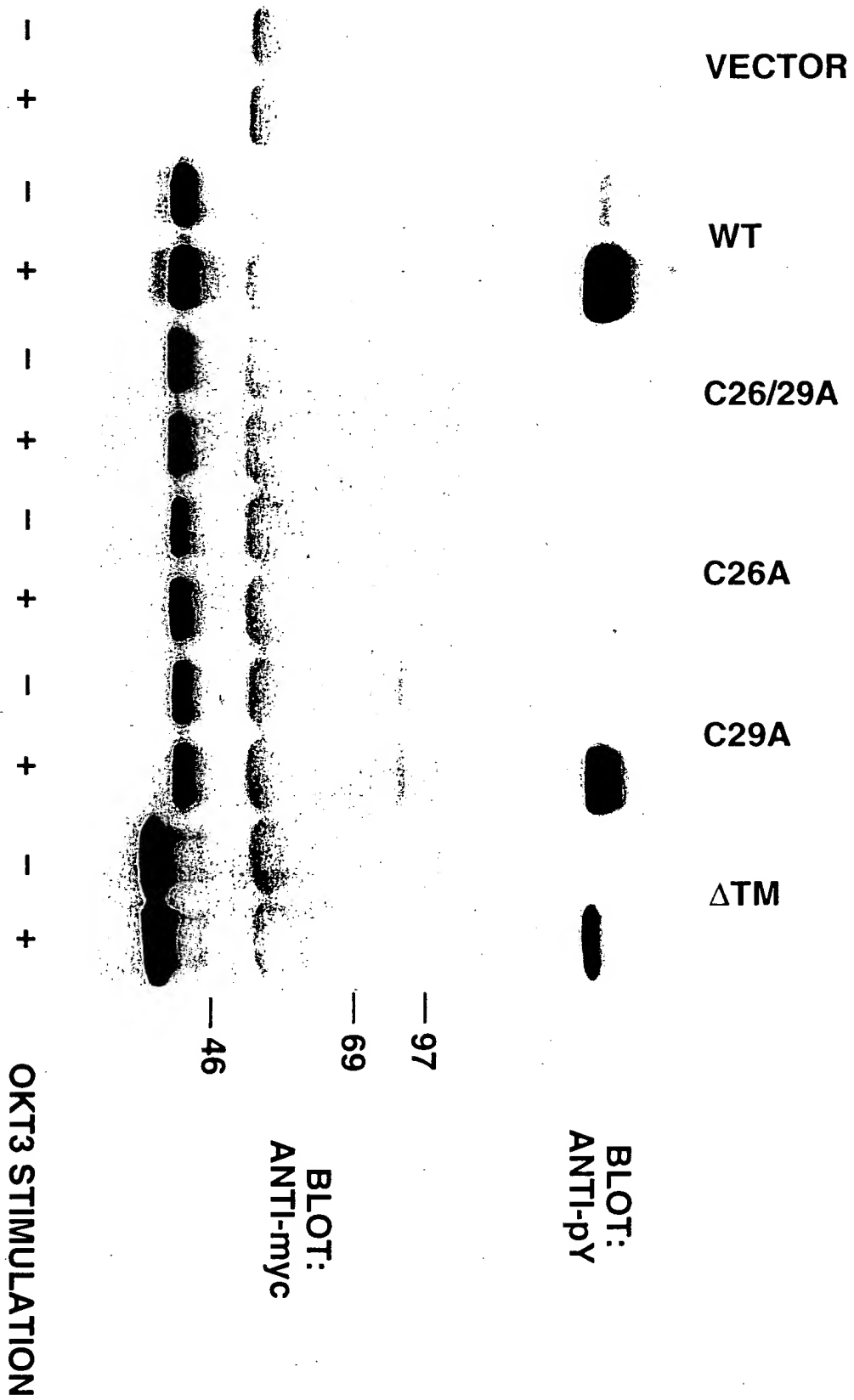


FIG. 16

09597920.001300